Reviewer’s report

Title: Patterns, Control and Complications of Diabetes from a Hospital Based Registry established in a Low Income Country

Version: 0 Date: 31 Oct 2016

Reviewer: Ilhan Satman

Reviewer's report:

Dear Authors,

This manuscript reports data on demographics, metabolic control and complications in patients with diabetes from a recently established hospital-based diabetes registry, which is an important step to evaluate and monitor diabetes care in Pakistan.

However, there are many contradictory issues in study design (collecting real time, prospective or retrospective data).

There is also uncertainty whether the study approved by the local ethical committee or exempted from review.

As the number of patients with type 1 diabetes, and other types were small. It will be better to evaluate patients with type 2 diabetes only. Women with GDM should not included at all.

The authors stated smoking history was available only in minority of patients and reported this issue among the main limitations of this study. But on the relevant Table smoking history is given for whole number of patients.

There are so many errors in abbreviations, for example glycated haemoglobin is abbreviated in five different forms; HbA1c, HBA1C, HBa1c, Hba1c and HBa1C. Similarly blood pressure in two forms; BP and B.P. Oral anti-diabetic drugs in two forms; OAD and OHS. Some abbreviations are used only once (NGOS) or few times only (T2DM, HTN, LDL, BP) although the whole name repeatedly used despite abbreviated names were defined. Some of the units for laboratory or anthropometrics are missing.
The statistical evaluation is limited. Factors related with optimal glycaemic control should be evaluated by a multivariate regression model. Parameters such as age, diabetes duration, BMI, HTN, diabetes medications, complications, co-morbid conditions, concomitant medications, etc) should be included in the model. The types of OADs or insulins should be provided.

Data on complications are based on self-report and may not be complete. Differences in ethnicity and socioeconomic levels are mentioned several times but not evaluated.

Reviewer

Most of the references need redesign according to the journal's requirements.

Discussion for metabolic control and vitamin D is not true. Data should be adjusted for BMI and then discussed. Vit-D deficiency is related with obesity (pooling in fat tissue) rather than diabetes or its control.

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

Unable to assess

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

Unable to assess

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript
Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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